

SEP 4 - 2007

REMARKS

Claims 2, 7-11, and 26-32 are pending herein.

1. Claims 29-31 were objected to because of informalities. Claims 29 and 31 have been amended to depend from claim 26. Accordingly, withdrawal of the objection is respectfully requested.

2. Claims 26-31 were rejected under 35 USC 112, first paragraph. Claim 26 has been amended to remove the phrase "open and unfilled." Accordingly, withdrawal of the 35 USC 112, first paragraph rejection is respectfully requested.

3. Claims 26, 28-30, and 32-48 were rejected under 35 USC 103(a) as being unpatentable over Iijima et al (2001/0006042) in view of Vaidya et al (US 5076203). The rejection is respectfully traversed for the following reasons.

The claimed invention is drawn to an IBAD apparatus comprising a substrate block containing gaseous delivery channels. The claimed invention particularly calls for the gaseous delivery channels to extend through the substrate block to openings at the surface of the substrate block where the substrate block contacts the translating substrate. Additionally, the claimed invention requires that the gas channels are hollow along the entire length of the respective gas channels.

While the PTO continues to rely upon Iijima et al. to allegedly teach the main features of the claimed invention, Iijima et al. fail to disclose gaseous coolant delivery channels open to the deposition chamber. The PTO has apparently relied upon Vaidya et al. to allegedly overcome this deficiency.

Vaidya et al. fail to disclose or suggest gas channels that are hollow along their entire length and extend to the surface of the substrate block. Rather, Vaidya et al. disclose a substrate block with a porous material between the hollow gaseous delivery channels and the surface of the substrate block. While, in Fig. 9, the combination of the gas channel 63 and the porous material 61 could possibly be viewed as a gas channel extending to the surface, the combination of 63 and the 61 clearly fail to satisfy the requirement of gas channels that are hollow along the

entire length. As such, Vaidya et al. do not disclose or even remotely suggest incorporation of gas channels that extend through the substrate block to the surface and are hollow and open along the entire length of the respective gas channels.

For at least the forgoing reasons in view of the amendments to the present claims, Applicants respectfully submit that the presently claimed invention would not have been anticipated by Iijima et al. in view of Vaidya et al. Accordingly, withdrawal of the 35 USC 103(a) rejection over Iijima et al. in view of Vaidya et al. is respectfully requested.

Applicant(s) respectfully submit that the present application is now in condition for allowance. Accordingly, the Examiner is requested to issue a Notice of Allowance for all pending claims.

Should the Examiner deem that any further action by the Applicants would be desirable for placing this application in even better condition for issue, the Examiner is requested to telephone Applicants' undersigned representative at the number listed below.

The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 50-3797.

Respectfully submitted,

Date

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